

Jacqueline A Isaacs

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,528
citations

304368

22
h-index

329751

37
g-index

85
all docs

85
docs citations

85
times ranked

1878
citing authors

#	ARTICLE	IF	CITATIONS
1	New Perspectives on Nanomaterial Aquatic Ecotoxicity: Production Impacts Exceed Direct Exposure Impacts for Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2012, 46, 2902-2910.	4.6	152
2	Novel keyword co-occurrence network-based methods to foster systematic reviews of scientific literature. <i>PLoS ONE</i> , 2017, 12, e0172778.	1.1	149
3	Environmental Assessment of Single-Walled Carbon Nanotube Processes. <i>Journal of Industrial Ecology</i> , 2008, 12, 376-393.	2.8	138
4	Airborne nanoparticle exposures associated with the manual handling of nanoalumina and nanosilver in fume hoods. <i>Journal of Nanoparticle Research</i> , 2009, 11, 147-161.	0.8	108
5	Mapping the Biological Oxidative Damage of Engineered Nanomaterials. <i>Small</i> , 2013, 9, 1853-1865.	5.2	58
6	NanoEHS – defining fundamental science needs: no easy feat when the simple itself is complex. <i>Environmental Science: Nano</i> , 2016, 3, 15-27.	2.2	53
7	Economic Consequences of Increasing Polymer Content for the U.S. Automobile Recycling Infrastructure. <i>Journal of Industrial Ecology</i> , 1997, 1, 19-33.	2.8	48
8	Life Cycle Impacts and Benefits of a Carbon Nanotube-Enabled Chemical Gas Sensor. <i>Environmental Science & Technology</i> , 2014, 48, 11360-11368.	4.6	48
9	Economic assessment of single-walled carbon nanotube processes. <i>Journal of Nanoparticle Research</i> , 2010, 12, 551-562.	0.8	43
10	Net energy benefits of carbon nanotube applications. <i>Applied Energy</i> , 2016, 173, 624-634.	5.1	38
11	MMCs for automotive engine applications. <i>Jom</i> , 1996, 48, 49-51.	0.9	36
12	ECONOMIC SENSITIVITY FOR END OF LIFE PLANNING AND PROCESSING OF PERSONAL COMPUTERS. <i>Journal of Electronics Manufacturing</i> , 2002, 11, 81-93.	0.4	33
13	Environmental Life Cycle Assessment of a Carbon Nanotube-Enabled Semiconductor Device. <i>Environmental Science & Technology</i> , 2013, 47, 8471-8478.	4.6	33
14	Life cycle energy benefits of carbon nanotubes for electromagnetic interference (EMI) shielding applications. <i>Journal of Cleaner Production</i> , 2017, 142, 1971-1978.	4.6	33
15	Economic Impact of Aluminum-Intensive Vehicles on the U.S. Automotive Recycling Infrastructure. <i>Journal of Industrial Ecology</i> , 2000, 4, 117-134.	2.8	31
16	Review of Research Trends and Methods in Nano Environmental, Health, and Safety Risk Analysis. <i>Risk Analysis</i> , 2016, 36, 1644-1665.	1.5	31
17	A life cycle framework for the investigation of environmentally benign nanoparticles and products. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 312-317.	1.2	28
18	The effects of recycling on the properties of carbon nanotube-filled polypropylene composites and worker exposures. <i>Environmental Science: Nano</i> , 2016, 3, 409-417.	2.2	27

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19	Value analysis of disposal strategies for automobiles. Computers and Industrial Engineering, 1997, 33, 325-328.	3.4	23
20	End-of-Life Infrastructure Economics for "Clean Vehicles" in the United States. Journal of Industrial Ecology, 2003, 7, 25-45.	2.8	23
21	Material Flow Analysis of Carbon Nanotube Lithium-Ion Batteries Used in Portable Computers. ACS Sustainable Chemistry and Engineering, 2014, 2, 1642-1648.	3.2	23
22	Integrating life cycle assessment into managing potential EHS risks of engineered nanomaterials: reviewing progress to date. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	23
23	Environmental Assessment of SWNT Production. , 2006, , .		21
24	Screening for oxidative damage by engineered nanomaterials: a comparative evaluation of FRAS and DCFH. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	20
25	Characterization of Potential Exposures to Nanoparticles and Fibers during Manufacturing and Recycling of Carbon Nanotube Reinforced Polypropylene Composites. Annals of Occupational Hygiene, 2016, 60, mev073.	1.9	19
26	Adoption of New Medical Technologies: The Case of Customized Individually Made Knee Implants. Value in Health, 2019, 22, 423-430.	0.1	16
27	Nanomanufacturing and sustainability: opportunities and challenges. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	15
28	Exposures to nanoparticles and fibers during injection molding and recycling of carbon nanotube reinforced polycarbonate composites. Journal of Exposure Science and Environmental Epidemiology, 2017, 27, 379-390.	1.8	15
29	Life-cycle analysis of automobiles: A critical review of methodologies. Jom, 1994, 46, 12-16.	0.9	12
30	Risk Analysis Modeling of Production Costs and Occupational Health Exposure of Single-Wall Carbon Nanotube Manufacturing. Journal of Industrial Ecology, 2008, 12, 411-434.	2.8	12
31	Economic analysis of CNT lithium-ion battery manufacturing. Environmental Science: Nano, 2015, 2, 463-476.	2.2	12
32	Nanomaterial induction of oxidative stress in lung epithelial cells and macrophages. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	11
33	Environmentally benign manufacturing "A workshop report. Journal of Cleaner Production, 2006, 14, 527-535.	4.6	10
34	Advancements in Unit Process Life Cycle Inventories (UPLCI) Tools. Procedia CIRP, 2018, 69, 447-450.	1.0	10
35	Analytically motivated process improvements in continuous metal-matrix composite wire fabrication. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 266, 86-92.	2.6	8
36	Engaging stakeholders in nano-EHS risk governance. Environment Systems and Decisions, 2015, 35, 24-28.	1.9	8

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37	The effects of recycling on the structure and properties of carbon nanotube-filled polycarbonate. <i>Polymer Engineering and Science</i> , 2018, 58, 1278-1284.	1.5	8
38	A Game Approach to Teach Environmentally Benign Manufacturing in the Supply Chain. <i>International Journal for the Scholarship of Teaching and Learning</i> , 2008, 2, .	0.4	8
39	Economic Comparison of NdFeB and Hard Ferrites in Automotive Applications. <i>Materials and Manufacturing Processes</i> , 2004, 19, 777-787.	2.7	7
40	Environmental assessment of manufacturing with carbon nanotubes. , 2009, , .		7
41	Economic Analysis of the Ultra Light Steel Auto Body. , 0, , .		6
42	Engineering students game to green the automobile supply chain. , 2008, , .		6
43	Cumulative Energy Demand for Printing Nanoscale Electronics. <i>Procedia CIRP</i> , 2019, 80, 298-303.	1.0	6
44	<title>Economics of PC recycling</title>. , 2001, , .		5
45	Multistage Stochastic Programming (MSP) Model for Carbon Nanotube Production Capacity Expansion Planning. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1633-1641.	3.2	5
46	Expression of the Carbohydrate Antigen CD15 in Rat Uterine Epithelial Cells during the Early Stages of Pregnancy. <i>European Journal of Morphology</i> , 1998, 36, 49-56.	1.4	5
47	Merchant Princes: An Intimate History of Jewish Families Who Built Great Department Stores.. <i>Journal of Southern History</i> , 1980, 46, 461.	0.0	4
48	Ultrastructural localisation of Muc-1 on the plasma membrane of uterine epithelial cells. <i>Acta Histochemica</i> , 2003, 105, 239-243.	0.9	4
49	Modeling Production Costs for SWNT Manufacturing Given Uncertain Health and Safety Standards. <i>Electronics and the Environment, IEEE International Symposium on</i> , 2007, , .	0.0	4
50	Developing a social capital metric for use in an educational computer game. , 2010, , .		4
51	Tackling Science Communication with REU Students: A Formative Evaluation of a Collaborative Approach. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1233, 1.	0.1	3
52	Environmental assessment of manufacturing with carbon nanotubes. , 2009, , .		3
53	Desirability functions for optimizing nanomanufacturing production scale-up. , 2010, , .		3
54	Comparison of U.S. Manufacturing Locations for Solar PVs. <i>Procedia CIRP</i> , 2019, 80, 434-439.	1.0	3

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55	Nanomanufacturing and sustainability: opportunities and challenges. , 2013, , 331-336.		3
56	Managing the tradeoffs in the digital transformation of an educational board game to a computer-based simulation. , 2007, , .		2
57	Probabilistic and Monte Carlo risk models for carbon nanomaterial production processes. , 2008, , .		2
58	Nanotechnology environmental, health, and safety issues: brief literature review since 2000. , 2009, , .		2
59	Nanomanufacturing HANDBOOK. , 0, , .		2
60	Correlation of thermal models with microstructural effects in continuous MMC wire production. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 266, 52-61.	2.6	1
61	Hydrodynamic modeling of a continuous metal matrix composite fabrication process as a cylindrical array. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 297, 132-137.	2.6	1
62	Heparin-binding EGF-like growth factor is seen on the extracellular surface of uterine epithelial cells only after the initial stages of blastocyst attachment. The Histochemical Journal, 2002, 34, 339-343.	0.6	1
63	Embedded Simulation Models in Educational Games on Environmental Issues for Engineering Students. Electronics and the Environment, IEEE International Symposium on, 2007, , .	0.0	1
64	Understanding carbon nanotube electronic products through their life cycle: A regulatory perspective. , 2010, , .		1
65	Assessment of engineering student learning from structured computer game play. , 2011, , .		1
66	Metrology challenges for high-rate nanomanufacturing of polymer structures. , 2012, , .		1
67	Sustainable CNT-enabled lithium-ion battery manufacturing: evaluating the tradeoffs. Environmental Science: Nano, 2016, 3, 1447-1459.	2.2	1
68	Total Cost Analysis of Lead-Free Automotive Electrocoating. , 0, , .		0
69	Economic and Environmental Tradeoffs in New Automotive Painting Technologies. , 0, , .		0
70	Enhancing the Success of Undergraduates in Engineering: A Teaching Workshop for Faculty and TAs. Materials Research Society Symposia Proceedings, 2000, 632, 1.	0.1	0
71	Managing Student Group Projects in an Introductory Materials Science Course. Materials Research Society Symposia Proceedings, 2002, 760, 1.	0.1	0
72	Life cycle inventories for nanomanufactured carbon nanotube products. , 2008, , .		0

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73	Modeling approaches for nanomanufacturing risk assessment. , 2009, , .		0
74	Life cycle inventories for Li-Ion nanobattery fabrication. , 2012, , .		0
75	A stochastic programming model for sustainable capacity expansion. , 2012, , .		0
76	Life Cycle Assessment in regulatory decision-making. , 2012, , .		0
77	Impacts of a Multi-University REU Program. Materials Research Society Symposia Proceedings, 2015, 1762, 1.	0.1	0
78	913â€¦Nanoparticle emission during cutting operation of carbon nanotube reinforced polycarbonate composites and recycling effect. , 2018, , .		0
79	Leaving the Laboratory. , 2006, , 377-388.		0
80	Safety Assessment of Nanotechnology Products. , 2010, , 53-63.		0
81	Life Cycle Perspectives for Biosensors. , 2012, , 125-129.		0